

524519

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

11 FEB 2005

(43) International Publication Date
18 March 2004 (18.03.2004)

PCT

(10) International Publication Number
WO 2004/022239 A1

(51) International Patent Classification⁷: B04B 9/00 //
F01M 13/04, B01D 45/14

(21) International Application Number: PCT/SE2003/001334

(22) International Filing Date: 28 August 2003 (28.08.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0202622.7 4 September 2002 (04.09.2002) SE

(71) Applicant (for all designated States except US): ALFA LAVAL CORPORATE AB [SE/SE]; Box 73, S-221 00 Lund (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): HÄLLGREN, Ingvar [SE/SE]; Solbacksvägen 26, S-147 41 Tumba (SE).

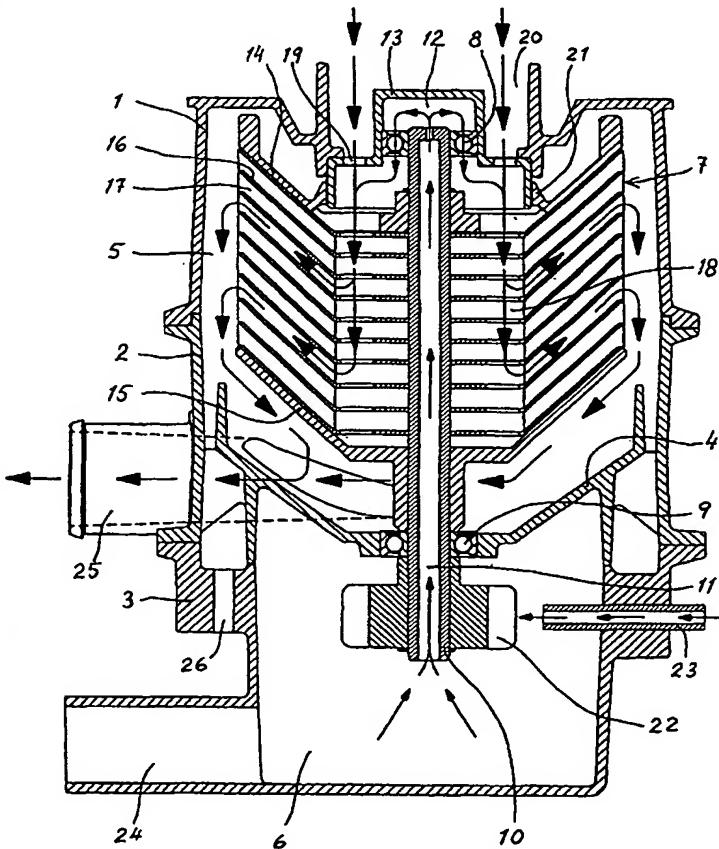
(74) Agent: CLIVEMO, Ingemar; Alfa Laval Corporate AB, Hans Stahles väg, S-147 80 Tumba (SE).

(81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: AN APPARATUS FOR CLEANING OF GAS



(57) **Abstract:** In an apparatus for cleaning of gases a centrifugal rotor (7) is supported by two bearings, in which it is rotatable about a rotational axis. The two bearings are lubricated by means of an oil mist, which is generated in a space (6), when oil is sprayed against a turbine wheel (22) supported by the rotor. Whereas the bearing (9), which is situated nearest said space (6), is lubricated by oil mist present in the space, the second bearing (8) is lubricated by oil mist being conducted to it through a central channel (11) in the centrifugal rotor.

WO 2004/022239 A1